

## CLAIMS

We claim:

~~SUB A7~~ 1. A security enclosure, comprising:

2 an electronic assembly;

3 a tamper respondent wrap secured at least partially around  
4 the assembly; and

5 an extension cable electrically connecting the wrap to the  
6 assembly.

1 2. The security enclosure of claim 1, wherein the electronic  
2 assembly comprises a cryptographic processor card.

1 3. The security enclosure of claim 1, wherein the tamper  
2 respondent wrap includes an adhesive inner surface that adheres  
3 the wrap to the electronic assembly.

1 4. The security enclosure of claim 1, wherein the tamper  
2 respondent wrap further includes a plurality of bonding pads  
3 formed at a first end of the wrap.

1 5. The security enclosure of claim 4, wherein the tamper  
2 respondent wrap further includes a system of resistors within  
3 each layer of the wrap.

1 6. The security enclosure of claim 5, wherein the system of  
2 resistors connect ink traces within each layer of the wrap to the  
3 bonding pads.

1 7. The security enclosure of claim 1, wherein the extension cable  
2 further includes a plurality of interconnections at a first end  
3 of the extension cable.

1 8. The security enclosure of claim 7, wherein the extension cable  
2 further includes a plurality of bonding pads at a second end of  
3 the extension cable.

1 9. The security enclosure of claim 8, wherein wires connect the  
2 interconnections and the bonding pads of the extension cable.

1 10. The security enclosure of claim 1, wherein a plurality of  
2 bonding pads on the wrap are bonded to a plurality of bonding  
3 pads on the extension cable.

1 11. The security enclosure of claim 10, wherein a thermal  
2 compression bonding process bonds the bonding pads on the wrap to  
3 the bonding pads on the extension cable.

1 12. The security enclosure of claim 1, wherein the wrap at least  
2 partially covers the extension cable.

1 13. The security enclosure of claim 1, wherein the extension  
2 cable comprises a flexible dielectric material.

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1 14. A security enclosure, comprising:  
2 an electronic assembly;  
3 an extension, having a first end inserted in the assembly,  
4 and a second end having at least one bonding pad thereon; and  
5 a tamper respondent wrap at least partially surrounding the  
6 assembly, having at least one corresponding bonding pad, wherein  
7 the bonding pad of the extension is secured to the bonding pad of  
8 the wrap.

1 15. The security enclosure of claim 14, wherein the first end of  
2 the extension comprises at least one interconnection which forms  
3 an electrical connection between the assembly and the extension.

1 16. The security enclosure of claim 15, wherein the at least one  
2 interconnection is electrically connected to the at least one  
3 bonding pad of the extension via a wire.

1 17. The security enclosure of claim 14, wherein the wrap further  
2 includes an adhesive on an inner surface of the wrap to secure  
3 the wrap to the assembly.

1 18. The security enclosure of claim 14, wherein the wrap further  
2 includes a system of resistors connecting ink traces within the  
3 wrap to the bonding pads of the wrap.

1 19. The security enclosure of claim 14, wherein the extension  
2 comprises a flexible cable.

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1 20. A security enclosure, comprising:

2 an electronic assembly; and

3 a tamper respondent wrap electrically connected to the  
4 assembly via an attachable extension.

1 21. The security enclosure of claim 20, wherein the attachable

2 extension comprises a flexible extension cable.

1 22. The security enclosure of claim 20, wherein the tamper

2 respondent wrap comprises a plurality of bonding pads formed on  
3 an end thereof.

1 23. The security enclosure of claim 21, wherein the extension

2 comprises a plurality of bonding pads formed on a first end  
3 thereof.

1 24. The security enclosure of claim 23, wherein the bonding pads

2 of the wrap are secured to the bonding pads of the extension.

1 25. The security enclosure of claim 23, wherein the extension

2 further comprises a plurality of interconnections formed at a  
3 second end of the extension.

1 26. The security enclosure of claim 22, wherein a system of  
2 resistors electrically connects the bonding pads of the wrap to  
3 ink traces of the wrap.

1 27. The security enclosure of claim 24, wherein the bonding pads  
2 of the wrap are secured to the bonding pads of the extension  
3 using a thermal compression bonding process.

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1 28. A flexible extension for use in a security enclosure,  
2 comprising:  
3 a first end having a plurality of interconnections which are  
4 inserted within an electronic assembly of the enclosure;  
5 a second end having a plurality of bonding pads thereon  
6 which are secured to a tamper respondent wrap of the enclosure;  
7 and  
8 wherein the cable electrically connects the wrap and the  
9 assembly.

1 29. The flexible extension of claim 28, wherein the bonding pads  
2 of the extension are bonded to bonding pads of the wrap.

1 30. The flexible extension of claim 28, wherein the extension  
2 comprises a dielectric material.



1 31. A method of forming a security enclosure, comprising:  
2 providing an electronic assembly having an opening therein;  
3 inserting a first end of an extension within the opening of  
4 the assembly;  
5 wrapping a tamper respondent wrap at least partially around  
6 the assembly; and  
7 electrically connecting a second end of the extension to the  
8 wrap.

ADD A3

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